

Future Flight Design			
2006 Science			
Grade Level Expectations			
<b>Delaware Science</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	DE	SCI.5.1.1.3	Accurately collect data using observations, simple tools and equipment. Display and organize data in tables, charts, diagrams, and bar graphs or plots over time. Compare and question results with and from others.
Air Transportation Problem	DE	SCI.5.1.1.4	Construct a reasonable explanation by analyzing evidence from the data. Revise the explanation after comparing results with other sources or after further investigation.
Air Transportation Problem	DE	SCI.5.1.1.5	Communicate procedures, data, and explanations to a variety of audiences. Justify the results by using evidence to form an argument.
Air Transportation Problem	DE	SCI.5.1.1.6	Use mathematics, reading, writing, and technology when conducting scientific inquiries.
Aircraft Design Problem	DE	SCI.5.1.1.20	Demonstrate and explain how forces of different sizes and directions can produce different kinds of changes in the motion of an object.
Future Flight Design			
2006 Science			
Grade Level Expectations			
<b>Delaware Science</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	DE	SCI.6.1.1.3	Accurately collect data through the selection and use of tools and techniques appropriate to the investigation. Construct tables, diagrams and graphs, showing relationships between two variables, to display and facilitate analysis of data. Compare and question results with and from other students.
Air Transportation Problem	DE	SCI.6.1.1.4	Form explanations based on accurate and logical analysis of evidence. Revise the explanation using alternative descriptions, predictions, models and knowledge from other sources as well as results of further investigation.

Air Transportation Problem	DE	SCI.6.1.1.5	Communicate scientific procedures, data, and explanations to enable the replication of results. Use computer technology to assist in communicating these results. Critical review is important in the analysis of these results.
Air Transportation Problem	DE	SCI.6.1.1.6	Use mathematics, reading, writing, and technology in conducting scientific inquiries.
Aircraft Design Problem	DE	SCI.6.1.1.13	Give examples of moving objects and identify the forces that act on these objects. Select examples where only one force acts on the object and examples where two or more forces act on the object. Explain that unbalanced forces acting on an object will change its speed, direction of motion or both.
Aircraft Design Problem	DE	SCI.6.1.1.14	Conduct investigations to describe how the relative directions of forces simultaneously acting on an object (reinforce or cancel each other) will determine how strongly the combination of these forces influences the motion of the object.
Aircraft Design Problem	DE	SCI.6.1.1.15	Conduct investigations and describe how a force can be directed to increase the speed of an object, decrease the speed of the object or change the direction in which the object moves.
<b>Future Flight Design</b>			
<b>2006 Science</b>			
<b>Grade Level Expectations</b>			
<b>Delaware Science</b>			
<b>Grade 7</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	DE	SCI.7.1.1.3	Accurately collect data through the selection and use of tools and techniques appropriate to the investigation. Construct tables, diagrams and graphs, showing relationships between two variables, to display and facilitate analysis of data. Compare and question results with and from other students.
Air Transportation Problem	DE	SCI.7.1.1.4	Form explanations based on accurate and logical analysis of evidence. Revise the explanation using alternative descriptions, predictions, models and knowledge from other sources as well as results of further investigation.

Air Transportation Problem	DE	SCI.7.1.1.5	Communicate scientific procedures, data, and explanations to enable the replication of results. Use computer technology to assist in communicating these results. Critical review is important in the analysis of these results.
Air Transportation Problem	DE	SCI.7.1.1.6	Use mathematics, reading, writing, and technology in conducting scientific inquiries.
<b>Future Flight Design</b>			
<b>2006 Science</b>			
<b>Grade Level Expectations</b>			
<b>Delaware Science</b>			
<b>Grade 8</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Transportation Problem	DE	SCI.8.1.1.3	Accurately collect data through the selection and use of tools and techniques appropriate to the investigation. Construct tables, diagrams and graphs, showing relationships between two variables, to display and facilitate analysis of data. Compare and question results with and from other students.
Air Transportation Problem	DE	SCI.8.1.1.4	Form explanations based on accurate and logical analysis of evidence. Revise the explanation using alternative descriptions, predictions, models and knowledge from other sources as well as results of further investigation.
Air Transportation Problem	DE	SCI.8.1.1.5	Communicate scientific procedures, data, and explanations to enable the replication of results. Use computer technology to assist in communicating these results. Critical review is important in the analysis of these results.
Air Transportation Problem	DE	SCI.8.1.1.6	Use mathematics, reading, writing, and technology in conducting scientific inquiries.